

PATENT COOPERATION TREATY

TRANSLATION

PCT

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year) **See form PCT/ISA/210**

Applicant's or agent's file reference

A2-B-11938

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/FR2005/050151

International filing date (day/month/year)

09.03.2005

Priority date (day/month/year)

22.03.2004

International Patent Classification (IPC) or both national classification and IPC

D01H1/32

Applicant

RIETER TEXTILE MACHINERY FRANCE

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/EP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
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International application No.

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Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐

This opinion has been established on the basis of a translation from the original language into the following language

_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

☐

a sequence listing

☐

table(s) related to the sequence listing

b. format of material

☐

in written format

☐

in computer readable form

c. time of filing/furnishing

☐

contained in the international application as filed.

☐

filed together with the international application in computer readable form.

☐

furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
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International application No.

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	1-5	YES
	Claims		NO
Inventive step (IS)	Claims	1-5	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO
2. Citations and explanations:			
<p>1 Reference is made to the following documents:</p> <p style="margin-left: 40px;">D1: DE 39 10 183 A (RIETER AG MASCHF) 4 October 1990</p>			
<p>2 Document D1, which is considered to represent the most relevant prior art, describes (the references between parentheses apply to this document):</p> <p style="margin-left: 40px;">Device for managing a power cut in a textile machine (figure 1) especially one for converting yarns, comprising:</p> <ul style="list-style-type: none"> - yarn-advancing means subject to motor members (32, 34, 36, ..., 46) controlled by frequency changers or converters (50), (52) that are supplied by a common DC bus (16); - a control/command system (56) supplied by the same DC bus (column 6, lines 36-42); - yarn-treatment means in the form of motorized spindles (24, 26), especially subject to individual motor members controlled by frequency variators or converters (28, 30) (column 4, lines 46-56). <p style="margin-left: 40px;">The document also describes that the common bus (16) for all of the yarn-advancing elements is supplied by a flywheel (column 4, lines 25-32).</p>			

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

2.1 The subject matter of independent claim 1 differs from document D1 in that:

- the motorized spindles (Ia, (Ib) and (Ic) are not supplied by the common bus but are self-supplied and autonomous;
and in that the common bus (17) for all of the yarn-advancing elements is kept supplied by a flywheel (13) in such a way that the two systems are completely independent energy-wise, and only the value of the ramps of one or both avoids any tension failure.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

2.2 The problem to be solved by the present invention may be considered as how to create a device for recovering the kinetic energy that is not necessarily associated with the number of spindles in service at the moment of the power cut.

2.2 The solution to this problem, as proposed in claim 1 of the present application, is considered to involve an inventive step (PCT Article 33(3)), for the following reasons:

None of the documents cited in the search report suggests a solution to this problem based on two supply systems that are completely independent energy-wise, as described in claim 1.

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2.3 Claims 2-5 are dependent on claim 1 and therefore also comply, as such, with the requirements of novelty and inventive step of the PCT.